

DISASTER INFORMATION

IN LATIN AMERICA AND THE CARIBBEAN (JAN-DEC 1988)

I-	EARTHQUAKES	PAGE 1
II-	VOLCANIC EVENTS	PAGE 2 - 4
III-	HURRICANES/STORMS	PAGE 5 - 8
IV-	FLOODS/HEAVY RAINS/LAND SLIDES	PAGE 9 - 13
V-	DROUGHTS	PAGE 14
VI-	TECHNOLOGICAL AND OTHER DISASTERS	PAGE 15

Prepared by AMRO/PED -3 May 1989



I- EARTHQUAKES

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE OF INFORMATION	APPEALS MADE	WHO RESPONSE	WHO REPORT
<u>The Caribbean</u>	Jamaica	Kingston, Linstead & Lower St. Andrews area	May 9	Earthquake		3				Seismic Research Unit UWI			
	Trinidad & Tobago	Port of Spain	Mar.10	Earthquake					-Cracks in older buildings -Electricity affected Princess Town	Seismic Research Unit UWI			
<u>Central America</u>													
<u>South America</u>	Chile	Northern Region (Taltal)	Jan.19	Earthquake					No report of damage	Sean Bulletin			
	Chile	Northern Region (Antofagasta)	Feb.15	Earthquake					Minor damage	Sean Bulletin			
	Peru	Southern Coast and Arequipa	April 12-13	Earthquake					Minor damage	Sean Bulletin			

II- VOLCANIC EVENTS

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE OF INFORMATION	APPEALS MADE	WHO RESPONSE	WHO REPORT
<u>The Caribbean</u>													
<u>Central America</u>													
<u>South America</u>	Chile	Central Chile Llama Volcano	March	Fumarolic activity					No damages	Sean Bulletin			
	Chile	Northern Chile Lascar Volcano	March	Minor ash emission					No damages	Sean Bulletin			
			July	Three explosions w/ ash emissions					No damages	Sean Bulletin			

II- VOLCANIC EVENTS

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE OF INFORMATION	APPEALS MADE	WHO RESPONSE	WHO REPORT
	Chile	Southern Chile Lonquimay	Decem.	Fissure eruption w/ Tephra clouds & lava -flow Frequent seismic events felt in all southern Chile Ashfall and gases affected South- Eastern area		2,000 were evacuated		10,000 persons, 100,000 farm animals		Sean Bulletin			
	Colombia	Tolima Nevado del Ruiz	All year long	Persistent emission & vigorous seismicity					No damages	Sean Bulletin			
	Colombia	Tolima Nevado del Tolima	All year long	Minor fumarolic activity					No damages	Sean Bulletin			

II- VOLCANIC EVENTS

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE OF INFORMATION	APPEALS MADE	WHO RESPONSE	WHO REPORT
	Ecuador	Fernandina (Galapagos)	Feb.	Eruption & frequent seismic events					No damages	Sean Bulletin			
	Ecuador	Guagua Pichincha	Since April	Stronger Fumarolic activity & increased felt in Quito					No damages	Sean Bulletin	Volcanic surveillance equipment		
	Ecuador	Sangay Volcano	August	Fumarolic activity w/ ash & lava flow					No damages	Sean Bulletin			
	Peru	Southern Peru Sabancaya Volcano	June	Increased fumarolic activity				Some cattle died either from the fumes or after eating contaminated foliage		Sean Bulletin	Volcanic surveillance equipment		

III- HURRICANES/STORMS

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE INFORM.	APPEALS MADE	WHO RESP.	WHO REPORT
<u>The Caribbean</u>	Bonaire		Oct.30	Tropical storm					Airport terminal roof	UNDRO			
	Cuba	Monati in Oriente Province	June	Storm					-Roofs off (300 homes) -A sugar Mill -A bus station -A warehouse -Seven schools	PCDPPP			
	Curacao		Oct.30	Tropical Storm	1	6 minor			Roofs off, Bridge	UNDRO			

III- HURRICANES/STORMS

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE INFORM.	APPEALS MADE	WHO RESP.	WHO REPORT
	Haiti		Sept.12	Hurricane Gilbert (Floods)			Many		Livestock Agricultural products roads	OPDES			
* <u>Mexico</u>	Mexico Campeche	Yukatan Campeche Quintana Roo Tamaulipas Monterrey City	Sept. 15-17	Hurricane Gilbert	250	N.A.	41,206	225,000	Housing: 25,000 destroyed in Quintana Roo, 800 damaged in Isla de Mujeres, 12000 damaged in Yukatan, 20,000 houses damaged in Cancun	Ministry of Health PAHO/WHO LRCS	PAHO/WHO 100,00	US\$55,000 local purchase through CIDA	
<u>Central America</u>	Costa Rica		Oct.22	Hurricane Joan (floods)	23	25	1000	25000	Housing 1700 dwellings health damages 2 hospitals, 2 clinics 19 health centers	Govern. PAHO/WHO UNDRO	PAHO/WHO 10000 USD	90000 USD for local purchases	Yes

* Several sources of information.
Final official report not available.

III- HURRICANES/STORMS

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE INFORM.	APPEALS MADE	WHO RESP.	WHO REPORT
	Nicaragua		Oct.22	Hurricane Joan	148 100 missing	184	231562	2.8 million	Social sector: housing 46500 dwellings. Health: hospitals and health centers Damaged 216 beds. Education: 258 schools lost. 447 schools damaged. Productive sector: 80 million USD losses. Industry: 30.2 million losses. Commerce: 23.13 million losses	Govern. PAHO/WHO ECLAC LRCS	Rehabilitation stage: 54.3 million USD Reconstruction stage 370.9 million USD. Disaster prevention forecasting. PAHO/WHO 60000 USD	Cash for local purchase 263000 USD. Through PAHO: 20000 USD Sweden 400000 USD	Yes
<u>South America</u>	Colombia	Northern coast of Colombia and the San Andres Islands	October	Hurricane "Joan"	0	5	187	800,000	Extensive damage to crops	FAO-Foodcrops & Shortages. Min. Health	Medical equipment & medicines	PAHO	
	Venezuela	Northern coast of Venezuela	October	Hurricane "Joan"	Dead several	N.A.	N.A.	N.A.	Damage to infrastructure and losses in crops	Fao-Food Crops & Shortages			

IV- FLOODS/HEAVY RAINS/LAND SLIDES

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE INFORM.	APEALS MADE	WHO RESP.	WHO REPORT
	Haiti		Sept.12	Hurricane/flood			Many						
	Haiti		Oct.1	Rainstorm	10		200		Over 30 houses destroyed	OPDES			
	Jamaica	Linstead area of St. Catherine	Jan.29-30	Flood					Roads, crops, estimated damage: J\$2.5 millions.	ODP			
	Saint Lucia		Sept.9	Heavy rain flood/land slides					Roads, Bridges, Banana cultivation	NDC Saint Lucia			
	Trinidad & Tobago	Northern part	Oct.3	Flood	2					Barbados Advocate			
<u>Central America</u>	Costa Rica		Jan.28-30	Floods	7		4000		C 1000 millions estimated	Govern. PAHO/WHO	-	Technical cooperation	No
	Honduras		Set.14-16	Floods	15	Not reported	925	1200	Housing 658 dwellings lost, 247 dwellings damaged	PAHO/WHO	LRCS	Technical cooperation	No

IV FLOODS/HEAVY RAINS/LAND SLIDES

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE INFORM.	APEALS MADE	WHO RESP.	WHO REPORT
<u>South America</u>	Honduras		Oct.22-23	Floods (Hurricane Joan)						PAHO/WHO	PAHO/WHO 12300 USD	12300 USD	Yes
	Panama		Oct.18-19	Floods (Hurricane Joan)	7	23 missing		35000	Reported in health sector 2000000 USD	Govern.	Government 1865000	Technical cooperation	Yes
	Argentina	Buenos Aires Province	March	Torrential rains & floods	24	N.A.	10,000	57,000	Damage to infrastructure & crops	FAO & Min. Health	Medicines & blankets	PAHO	
	Brazil	Rio de Janeiro	Feb. & March	Torrential rains & mudslides caused widespread floods in urban areas	275	185	20,000	3,000,000	Considerable damage to property & infrastructure and loss of life	FAO-Food crops & Short-ages Min. of Health	Food, blankets, medicines, equipment	PAHO	
	Brazil	Alagoas & Pernambuco	July	Torrential rains & floods				1'300,000	Damage to infrastructure & property	FAO	Medicine, food, & blankets	PAHO	

IV FLOODS/HEAVY RAINS/LAND SLIDES

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE INFORM.	APPEALS MADE	WHO RESP.	WHO REPORT
	Colombia	Guajira, Magdalena, Atlantico, Bolivar, Sucre, Cordoba, & S. Andres Island	August to Nov.	Continuos heavy rains	83	800	75,000	2'000,000	Caused severe damage to infrastructure, property & crops	FAO & Min. of Health	Medicines, food, blanket, tents	PAHO	
	Ecuador	Guayas Province	April	Heavy rains produced floods in the coast						FAO			
	Paraguay	Asuncion	June & July	Pilcomayo River flooded lower parts of Asuncion due to heavy rains			20,000	60,000		Newspaper (unofficial inform.) Govt. did not declare disaster officially			

IV- FLOODS/HEAVY RAINS/LAND SLIDES

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE INFORM.	APPEALS MADE	WHO RESP.	WHO REPORT
	Peru	Huanuco	Feb.	Torrential rains produced landslides isolating areas of the province	8	25	100	10,000	Damage to housing & infrastructure	UNDRO- Min. Health	Medicines & Blankets		
	Peru	Apurimac, Cusco, Madre de Dios	March	Torrential rains & Mudslides	10	25	1,000		Considerable damage to infrastructure & crops	FAO & Min. Health	Medicines & blankets		
	Venezuela	Northeast	August & Sept.	Rains from Hurricane "Gilbert" caused severe floods			100		Damage to infrastructure property & crops	UNDRO			

V- DROUGHTS

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE INFORM.	APPEALS MADE	WHO RESP.	WHO REPORT
<u>The Caribbean</u>	Guyana			Lack of water						Reuter			
<u>Central America</u>													
<u>South America</u>	Brazil	Large sections of the population of the states of Bahia, Maranhao, Piaui, Ceara, Rio Grande do Norte, Paraiba, Pernambuco, Sergipe & Mina Gerais	January & Feb.	Affected by shortage of drinking water & food due to the severe drought of 1987				40 million		FAO- foodcrops & short- ages	Food		

VI- TECHNOLOGICAL AND OTHER DISASTERS

REGION	COUNTRY	AREA AFFECTED	DATE	TYPE OF DISASTER	NUMBER DEAD	NUMBER INJURED	NUMBER HOMELESS	NUMBER AFFECTED	TOTAL DAMAGE	SOURCE INFORM.	APEALS MADE	WHO RESP.	WHO REPORT
<u>The Caribbean</u>	Cuba	Havana	June 25	Train/bus crash	27	87				CANA			
	Guyana		Jan-March	Fires				281	-29 buildings destroyed -Estimated damage over G\$4 millions	PCDPPP			
	Haiti	Port of Gonaives Waste	Feb.	Dumping of hazardous waste					OPDES				
	Saint Lucia		Nov.23	Oil spill						Agency National Disaster Coordinator, St. Lucia			
<u>Central America</u>													
<u>South America</u>													